AUTHOR INDEX TO VOLUME 3

Afonin, A. A. Allowance for the Influence of $\pi\pi$ Scattering Annihilation Channels in the Reaction $N(\pi,2\pi)N$ - 326

Agranovich, V. M. and O. A. Dubovskii. Effect of Retarded Interaction on the Exciton Spectrum in One-dimensional and Two-dimensional Crystals - 223

Akanaev, B. A. and Ya. Petselt. Parametric Interaction of Infrared Waves in a Medium in which Intense Molecular Oscillations are Excited - 211

Akhmanov, S. A., A. I. Kovrigin, V. A. Kolosov, A. S. Piskarskas, V. V. Fadeev, and R. V. Khokhlov. Tunable Parametric Light Generator with KDP Crystal - 241

Akhtyamov, O. S. A Possible Experiment for Finding Superconductors with Different Pair Multiplicity - 183

Aleksandrov, E. B., A. M. Bonch-Bruevich, N. N. Kostin, and V. A. Khodovoi. Frequency Shift of Optical Transition in the Field of a Light Wave - 53

Aleksandrov, E. B. and A. P. Sokolov. Orientation of Cd^{111} Nuclei by 3261 Å Resonant Radiation - 273

Alekseevskii, N. E., V. N. Anishchenko, A. L. Erzinkyan, V. P. Parfenova, and V. S. Shpinel' Effective Magnetic Field at the Co^{60} Nucleus in the CoPd Alloy - 206

Aleshin, K. P. (see Lukashevich, I. I.) - 50

Al'tshuler, L. V., A. A. Bakanova, and I. P. Dudoladov. Peculiarities of Shock Compression of Lanthanides - 315

Al'tshuler, S. A. Use of Substances Containing Rare-earth Ions with Even Number of Electrons to Obtain Infralow Temperatures - 112

Ambartsumyan, R. V., N. G. Basov, P. G. Kryukov and V. S. Letokhov. Laser with Nonresonant Feedback - 167

Andronikashvili, E. L., D. S. Bedbenova, N. G. Politov, and D. S. Tsakadze. Scattering of Cold Neutrons in Irradiated KBr and NaCl Crystals - 110

Anishchenko, V. N. (see Alekseevskii, N. E.) - 206

Arutyunyan, F. R., Sh. V. Petrosyan, and R. A. Oganesyan. Transition Radiation of Nonrelativistic Electrons in Thin Aluminum Films - 123

Askar'yan, G. A. Optocaloric Effect (Amplification of the Atomic Interaction and Cooling of the Medium) in a Laser Beam - 105

Askar'yan, G. A., E. Ya. Gol'ts, M. S. Rabinovich, and V. B. Studenov. Electric Breakdown Through a Flame - 264

Askar'yan, G. A., M. S. Rabinovich, M. S. Savchenko, and V. K. Stepanov. Fast Overlap of Microwave Radiation by an Ionization Aureole of a Spark in a Laser Beam - 303

Askerov, B. M. and F. M. Gashimzade. Contribution to the Quantum Theory of Electric Conductivity of Semiconductors with Nonstandard Band - 226

Azbel', M. Ya. and G. A. Begiashvili. Contribution to the Theory of Quantum Oscillations of Surface Impedance - 128

Azimov, M. A., E. N. Basova, U. G. Gulyamov, K. R. Igamberdiev, V. G. Kolesnik, V. S. Pantuev, L. V. Sil'vestrov, and M. N. Khachaturyan. Differential Cross Section of Charge Exchange of 4.8-GeV/c π^- Mesons with Protons - 216

Babaev, A. I., M. Ya. Balats, G. G. Myasishcheva, Yu. V. Obukhov, V. S. Roganov, and V. G. Firsov. Observation of Atomic Muonium in Crystalline Quartz - 1

Baibodorov, Yu. T., Yu. V. Gott, M. S. Ioffe, and E. E. Yushmanov. Unstable States of a Plasma in a Trap with Combined Field - 58

Bakanova, A. A. (see Al'tshuler, L. V.) - 315

Balats, M. Ya. (see Babaev, A. I.) - 1

Baldin, A. M. Electromagnetic Interactions in the Quark Model - 171

Balkarei, Yu. M. and D. I. Khomskii. Lattice Stability in the Phononless Mechanism of Superconductivity - 181

Barkalov, I. M., V. I. Gol'danskii, V. L. Tal'roze, and P. A. Yampol'skii. Intensification of a Shock Wave by the Polymerization Energy and the Feasibility of a Polymerization Detonation - 200

Bashkirov, Sh. Sh. and E. K. Sadykov. Effect of Optical Radiation on the Electic Quadrupole Interaction of a Parametric-ion Nucleus - 154

Basiladze, S. G., P. F. Ermolov, and K. O. Oganesyan. Cross Section for the Production of Charged Pions in (n-p) Collisions at a Neutron Effective Energy 585 keV - 103

Basov, N. G., Yu. P. Zakharov, T. F. Nikitina, Yu. M. Popov, G. M. Strakhovskii, V. M. Tatarenkov, and A. N. Khvoshchev. Gallium Arsenide Laser Operating at Room Temperature - 289

Basov, N. G., A. N. Oraevskii, G. M. Strakhovskii, and A. V. Uspenskii. Two-cavity Laser as High-resolution Spectroscope - 305

Basov, N. G. (see Ambartsumyan, R. V.) - 167

Basova, E. N. (see Azimov, M. A.) - 216

Bass, F. G. A New Resonance Connected with Mutual Dragging of Electrons and Phonons - 231

Bedbenova, D. S. (see Andronikashvili, E. L.) - 110

Begiashvili, G. A. (see Azbel', M. Ya.) - 128

Belenov, E. M., E. P. Markin, V. N. Morozov, and A. N. Oraevskii. Interaction of Traveling Waves in a Ring Laser - 32

Belikova, T. P. and E. A. Sviridenkov. Photoconductivity of Ruby when Strongly Irradiated by a Ruby Laser - 257
Belov, K. P., V. P. Kiryukhin, and V. I. Sokolov. Effect of Small Terbium Impurities on the Magnetostriction of Yttrium Iron Garnet - 212
Belyaev, V. A., B. G. Brezhnev, and E. M. Erastov. Measurement of the Cross Sections of Ion-atom Collisions at Low Energies by the Method of Overtaking Beams - 207
Bespalov, V. I. and V. I. Talanov. Filamentary Structure of Light Beams in Nonlinear Liquids - 307
Bilen'kii, S. M. On a Possible Method of Verifying CPT Invariance in pp Scattering - 74
Blinov, L. M., V. S. Vavilov, and G. N. Galkin. Photo-emf of p-n Junction in a Strongly Excited Semiconductor - 234
Blinov, P. I., L. P. Zakatov, A. G. Plakhov, R. V. Chikin, and V. V. Shapkin. Influence of Magnetic-field Configuration on the Heating and Containment of a Plasma in a Mirror Trap ("Probkotron") - 163
Bogdanov, V. S. Jump in Volume and Melting Curve of Cesium at Pressures up to 17,000 kg/cm^2 - 26
Bogod, Yu. A. and V. V. Eremenko. Magnetoresistance of Bismuth in Strong Magnetic Fields - 114
Bolotin, L. I. (see Kornilov, E. A.) - 229
Bonch-Bruevich, A. M., N. N. Kostin, and V. A. Khodovoi. Resonant Birefringence in the Electric Field of a Light Wave - 279
Bonch-Bruevich, A. M. (see Aleksandrov, E. B.) - 53
Borzhovskii, I. A., V. D. Volovik, V. I. Kobizskoy, and E. S. Shmatko. Measurement of the Polarization of Coherent Radio Emission of Extensive Air Showers (EAS) - 118
Braginskii, V. B. One Method of Searching for Quarks - 43
Brezhnev, B. G. (see Belyaev, V. A.) - 207
Broude, V. L., E. I. Rashba, and E. F. Sheka. Collective Effects in Vibron Spectra of Molecular Crystals - 281
Burchenko, P. Ya., B. T. Vasilenko, E. D. Volkov, R. M. Nikolaev, V. A. Potapenko, and V. T. Tolok. Excitation and Thermalization of Plasma Oscillations in a Stellarator - 156
Bychkov, Yu. A. and A. M. Dykhne. Electron Spectrum in a One-dimensional System with Randomly Arranged Scattering Centers - 202
Chaban, A. A. Amplification of Anomalous Elastic Wave in a Transverse Electric Field - 31
Chaban, A. A. Concerning Induced Mandel'shtam-Brillouin Scattering - 45
Cheishvili, O. D. (see Kiknadze, L. V.) - 197
Cherepanov, V. I. (see Sherstkov, Yu. A.) - 262
Chernavskii, D. S. (see Maksimenko, V. M.) - 219
Chernev, Kh. (see Zolin, L. S.) - 8
Chernykh, N. S. (see Kokurin, Yu. L.) - 139
Ch'iang, Yu. N. and V. V. Eremenko. Singularities of the Temperature Dependence of Electric Conductivity of Aluminum at Helium Temperatures - 293
Chikin, R. V. (see Blinov, P. I.) - 163
Daiborg, E. I. Application of SU(3) Symmetry to Multiple Meson Production - 152
Dal'karov, O. D. Concerning Two-nucleon Resonances - 94
Dalkhazhav, N. (see Zolin, L. S.) - 8
Delone, G. A. (see Voronov, G. S.) - 313
Delone, N. B. (see Voronov, G. S.) - 313
Devinskii, P. (see Zolin, L. S.) - 8
Dmitriev, I. S., L. I. Vinogradova, V. S. Nikolaev, and B. M. Popov. Autoionization of Fast Lithium-like Nitrogen and Oxygen Ions after Passage through a Solid - 20
Dneprovskii, V. S., D. N. Klyshko, and A. N. Penin. Photoconductivity of Dielectrics under the Influence of Laser Radiation - 251
Dubovikov, M. S. Use of a Polarized Proton Target to Determine Isobar Parity - 4
Dubovikov, M. S. Use of a Helium Target to Determine the Spin and Parity of Multimeson Resonances - 99
Dubovskii, O. A. (see Agranovich, V. M.) - 223
Dudoladov, I. P. (see Al'tshuler, L. V.) - 315
Dykhne, A. M. (see Bychkov, Yu. A.) - 202
Dyumin, N. E. (see Esel'son, B. N.) - 18
Dzhibuti, R. I., V. I. Mamasakhlisov, and T. S. Macharadze. Excited States of the He^4 Nucleus - 298
Elesin, V. F. and E. A. Manykin. Possible Realization of Negative Conductivity with Nonequilibrium Carriers in Semiconductors - 15
Elinson, M. I. (see Ogrin, Yu. F.) - 71
Epshtein, E. M. (see Gulyaev, Yu. G.) - 268
Erastov, E. M. (see Belyaev, V. A.) - 207
Eremenko, V. V., Yu. A. Popkov, and L. T. Kharchenko. Zeeman Effect on Exciton-magnon Bands in Antiferromagnetic MnF_2 Crystals - 149
Eremenko, V. V. (see Bogod, Yu. A.) - 114
Eremenko, V. V. (see Ch'iang, Yu. N.) - 293
Ermolov, P. F. (see Basiladze, S. G.) - 103
Erzinkyan, A. L. (see Alekseevskii, N. E.) - 206
Esel'son, B. N., N. E. Dyumin, E. Ya. Rudavskii, and I. A. Serbin. Experimental Observation of Fourth Sound in He^3-He^4 Solutions - 18
Fabelinskii, I. L. (see Krivokhizha, S. V.) - 245
Fadeev, V. V. (see Akhmanov, S. A.) - 241
Fainberg, Ya. B. (see Kornilov, E. A.) - 229
Feinberg, E. L. Possible Presence of Relic Quarks in Cosmic Rays - 324
Feinberg, E. L. (see Maksimenko, V. M.) - 219
Feofilov, P. P. (see Ovsyankin, V. V.) - 322
Fetisov, V. N. Influence of the Structure of

Three-particle Nuclei on the Photodisintegration Cross Section - 108
Filippov, N. I. (see Lukashevich, I. I.) - 50
Filippov, N. I. (see Sklyarevskii, V. V.) - 135
Firsov, V. G. (see Babaev, A. I.) - 1
Fomin, P. I. Concerning the Possible Role Played by Gravitation in the Problem of the Mass of an Elementary Particle - 120
Frankfurt, L. L. (see Levin, E. M.) - 79
Fridkin, V. M. Some Effects Due to Electron-phonon Interaction in Phase Transitions Occurring in a Semiconductor Ferroelectric - 161
Fugol', I. Ya. and P. L. Pakhomov. Diffusion of Metastable Helium Atoms in a Cryogenic Plasma - 254
Gaidukov, Yu. P. and I. P. Krechetova. Quantum Oscillations of Surface Resistance of Zinc at 1 Mc - 144
Galaiko, V. P. Motion of Vortex Filaments in Superconducting Alloys - 76
Galkin, G. N. (see Blinov, L. M.) - 234
Gashimzade, F. M. (see Askerov, B. M.) - 226
Geilikman, B. T. and V. Z. Kresin. Jump in Specific Heat on Going from the Superconducting to the Normal State - 28
Gol'danskii, V. I. (see Barkalov, I. M.) - 200
Golovenchits, E. I., A. G. Gurevich, and V. A. Sanina. Magnetic Resonance in $RbNiF_3$ Single Crystals - 266
Gol'ts, E. Ya. (see Askar'yan, G. A.) - 264
Golubeva, O. N. Anomalous Absorption of Ultraviolet Radiation in Quartz Undergoing a Phase Transition - 318
Goncharov, I. N. and I. S. Khukhareva. Anomalous Behavior of $j_c(H, T)$ of Heat-treated Nb - 75% Zr Alloys - 236
Gorelik, L. L. and V. V. Sinitsyn. Effect of Electric Field on Transport Phenomena in Polar Gases with Nonspherical Molecules - 91
Gott, Yu. V. (see Baiborodov, Yu. T.) - 58
Grechukhin, D. P. Collective M1 Transitions of Even Nuclei - 275
Gulyaev, Yu. G. and E. M. Epshtein. Acoustothermal Effect in Semiconductors - 268
Gulyamov, U. G. (see Azimov, M. A.) - 216
Gurevich, A. G. (see Golovenchits, E. I.) - 266
Igamberdiev, K. R. (see Azimov, M. A.) - 216
Ioffe, B. L. (see Vainshtein, A. I.) - 214
Ioffe, M. S. (see Baiborodov, Yu. T.) - 58
Isaenko, V. I. (see Vanyukov, M. P.) - 205
Ivanchenko, V. G. and B. S. Ratner. Shell Effects in the Cross Section of the Reaction $Zn^{67}(\gamma p)$ - 296
Ivanov, G. K. and Yu. S. Sayasov. Direct Atomic-molecular or Ionic-molecular Reactions - 23
Ivanov-Omskii, V. I., B. T. Kolomiets, and V. A. Smirnov. Spectrum of Electromagnetoluminescence in InSb - 185
Kaidalov, A. B. (see Zakharov, V. I.) - 300
Kaslin, V. M. and G. G. Petrash. Rotational Structure of Ultraviolet Generation of Molecular Nitrogen - 55
Khachaturyan, M. N. (see Azimov, M. A.) - 216
Khachaturyan, M. N. (see Zolin, L. S.) - 8
Khaikin, A. S. Investigation of Electron Collisions with Excited Neon Atoms - 68
Khalfin, L. A. Concerning the Decay $K_L^0 \to \pi^+ + \pi^-$ - 81
Kharchenko, L. T. (see Eremenko, V. V.) - 149
Kharkevich, G. I. (see Lobashov, V. M.) - 173
Khodovoi, V. A. (see Aleksandrov, E. B.) - 53
Khodovoi, V. A. (see Bonch-Bruevich, A. M.) - 279
Khokhlov, R. V. (see Akhmanov, S. A.) - 241
Khomskii, D. A. (see Balkarei, Yu. M.) - 181
Khristov, L. (see Zolin, L. S.) - 8
Khukhareva, I. S. (see Goncharov, I. N.) - 236
Khvoshchev, A. N. (see Basov, N. G.) - 289
Kiknadze, L. V., Yu. G. Mamaladze, and O. D. Cheishvili. State of Liquid Helium in the Vicinity of the λ Line - 197
Kikoin, I. K. and S. D. Lazarev. Oscillations of the Photomagnetic Effect with the Magnetic Field - 285
Kirillova, L. F. (see Zolin, L. S.) - 8
Kiryukhin, V. P. (see Belov, K. P.) - 212
Klyshko, D. N. (see Dneprovskii, V. S.) - 251
Kobizskoy, V. I. (see Borzhkovskii, I. A.) - 118
Kokurin, Yu. L., V. V. Kurbasov, V. F. Lobanov, V. M. Mozhzherin, A. N. Sukhanovskii, and N. S. Chernykh. Measurement of the Distance to the Moon by Optical Radar - 139
Kolesnik, V. G. (see Azimov, M. A.) - 216
Kolomiets, B. T. (see Ivanov-Omskii, V. I.) - 185
Kolosov, V. A. (see Akhmanov, S. A.) - 241
Konyukhov, V. K. and A. M. Prokhorov. Population Inversion in Adiabatic Expansion of a Gas Mixture - 286
Korbel, Z. (see Zolin, L. S.) - 8
Kormer, S. B., K. B. Yushko, and G. V. Krishkevich. Dependence of the Refractive Index on the Density of the Solid and Liquid Phases of Shock-compressed Ionic Crystals. Relaxation Time of Phase Transformation under Shock Compression - 39
Kornilov, E. A., Ya. B. Fainberg, L. I. Bolotin, and O. F. Kovpik. Suppression of Low-frequency Oscillations in Two-stream Instability by Prior Modulation of the Electron Beam - 229
Korobkin, V. V., A. M. Leontovich, M. N. Popova, and M. Ya. Shchelev. Dynamics of the Field and Generation Frequency in a Giant Pulse of a Laser with Passive Shutter - 194
Korolyuk, A. P. and L. Ya. Matsakov. Doppler Splitting of Acoustic Cyclotron Resonance in an Oblique Magnetic Field in Antimony - 188
Kosarev, E. L. Resolution of the Spectrum of an Open Resonator with the Aid of an Echelette Grating - 190

Kostin, N. N. (see Aleksandrov, E. B.) - 53
Kostin, N. N. (see Bonch-Bruevich, A. M.) - 279
Kovpik, O. F. (see Kornilov, E. A.) - 229
Kovrigin, A. I. (see Akhmanov, S. A.) - 241
Krechetova, I. P. (see Gaidukov, Yu. P.) - 144
Kresin, V. Z. (see Geilikman, B. T.) - 28
Krishkevich, G. V. (see Kormer, S. B.) - 39
Krivokhizha, S. V., D. I. Mash, V. V. Morozov, V. S. Starunov, and I. L. Fabelinskii. Induced Mandel'shtam-Brillouin Scattering in Single-crystal Quartz at Temperatures 2.1 - 300°K - 245
Krizhanskii, L. M., B. I. Rogozev, and G. V. Popov. On the Sign of the Change of the Charge Radius of the Sn^{119} Nucleus - 248
Kryukov, P. G. (see Ambartsumyan, R. V.) - 167
Kulagin, S. G., V. M. Likhachev, E. V. Markuzon M. S. Rabinovich, and V. M. Sutovskii. States with Population Inversion in a Self-compressed Discharge - 6
Kulik, I. O. Nonstationary Phenomena in the Mixed State of Superconductors of the Second Kind - 116
Kulik, I. O. Magnetic Moment of a Superconducting Ellipsoid in a Mixed State - 259
Kurbasov, V. V. (see Kokurin, Yu. L.) - 139
Lazarev, S. D. (see Kikoin, I. K.) - 285
Leontovich, A. M. (see Korobkin, V. V.) - 194
Letokhov, V. S. Autoresonant Feedback in Lasers - 269
Letokhov, V. S. (see Ambartsumyan, R. V.) - 167
Levin, E. M. and L. L. Frankfurt. Mass Formulas in Weakly Broken SU(3) Symmetry - 79
Lifshitz, T. M. and A. L. Musatov. Infrared-controlled Field Emission from Germanium - 84
Likhachev, V. M. (see Kulagin, S. G.) - 6
Lisovskii, F. V. and Ya. A. Monosov. Retarded Nonstationary Reradiation of Electromagnetic Signals by a Parametrically Regenerated Ferrite - 310
Livshitz, B. L., V. P. Nazarov, L. K. Sidorenko A. T. Tursunov, and V. N. Tsikunov. Features of the Time Behavior of the Generation in a Laser with Moving Ruby Crystal - 179
Lobanov, V. F. (see Kokurin, Yu. L.) - 139
Lobashov, V. M., V. A. Nazarenko, L. F. Saenko, and L. M. Smotritskii. Search for Parity Nonconservation in Nuclear Gamma Transitions - 47
Lobashov, V. M., V. L. Nazarenko, L. F. Saenko, L. M. Smotritskii, and G. I. Kharkevich. Parity Nonconservation in Radiative Transition of Lu^{175} - 173
Lu Ch'ing-ch'iang (see Zolin, L. S.) - 8
Lukashevich, I. I., V. V. Sklyarevskii, K. P. Aleshin, B. N. Samoilov, E. P. Stepanov, and N. I. Filippov. The Mossbauer Effect on Dy^{161} Impurity Nuclei in Metallic Gadolinium - 50
Lukashevich, I. I. (see Sklyarevskii, V. V.) - 135
Lutskii, V. N. (see Ogrin, Yu. F.) - 71
Lyubimov, V. V. (see Vanyukov, M. P.) - 205
Macharadze, T. S. (see Dzhibuti, R. I.) - 298
Maksimenko, V. M., I. N. Sisakyan, E. L. Feinberg, and D. S. Chernavskii. The Cross Section of Quark Generation - 219
Mamaladze, Yu. G. (see Kiknadze, L. V.) - 197
Mamasakhlisov, V. I. (see Dzhibuti, R. I.) - 298
Manykin, E. A. (see Elesin, V. F.) - 15
Markin, E. P. (see Belenov, E. M.) - 32
Markov, M. Concerning the Search for Specific Interactions between μ Mesons and ν_μ Neutrinos at Ultrahigh Energies - 62
Markov, P. (see Zolin, L. S.) - 8
Markuzon, E. V. (see Kulagin, S. G.) - 6
Mar'yakhin, A. A. and V. P. Naberezhnykh. Size Effect on "Ineffective" Electrons of Open Sections - 130
Mash, D. I. (see Krivokhizha, S. V.) - 245
Matsakov, L. Ya. (see Korolyuk, A. P.) - 188
Mikhailovskii, A. B. and V. S. Tsypin. High-frequency Instability of a Plasma in a Radial Electric and Longitudinal Magnetic Field - 158
Mitrofanov, K. P. (see Plotnikova, M. V.) - 209
Monosov, Ya. A., V. V. Surin, and A. A. Tulaikova. Investigation of High-frequency Oscillations in Single-crystal Magnesium Manganese Ferrite - 159
Monosov, Ya. A. (see Lisovskii, F. V.) - 310
Morozov, V. N. (see Belenov, E. M.) - 32
Morozov, V. V. (see Krivokhizha, S. V.) - 245
Mozhzherin, V. M. (see Kokurin, Yu. L.) - 139
Musatov, A. L. (see Lifshitz, T. M.) - 84
Myasishcheva, G. G. (see Babaev, A. I.) - 1
Naberezhnykh, V. P. (see Mar'yakin, A. A.) - 130
Nazarenko, V. L. (see Lobashov, V. M.) - 47, 173
Nazarov, V. P. (see Livshitz, B. L.) - 179
Nepsha, V. I. (see Sherstkov, Yu. A.) - 262
Neudachin, V. G. (see Smirnov, Yu. F.) - 192
Nikiforov, A. E. (see Sherstkov, Yu. A.) - 262
Nikitin, V. A. (see Zolin, L. S.) - 8
Nikitina, T. F. (see Basov, N. G.) - 289
Nikolaev, R. M. (see Burchenko, P. Ya.) - 156
Nikolaev, V. S. (see Dmitriev, I. S.) - 20
Nikol'skii, S. I. Inelelastic Interactions of Nucleons and Nuclei at High Energy - 97
Noskin, V. A. (see Zhuze, V. P.) - 138
Novikov, I. D. Change of Relativistic Collapse into Anticollapse and Kinematics of a Charged Sphere - 142
Obukhov, Yu. V. (see Babaev, A. I.) - 1
Oganesyan, K. O. (see Basiladze, S. G.) - 103
Oganesyan, K. O. (see Arutyunyan, F. R.) - 123
Ogrin, Yu. F., V. N. Lutskii, and M. I. Elinson. Observation of Quantum Size Effects in Thin Bismuth Films - 71
Oraevskii, A. N. (see Belenov, E. M.) - 32
Oraevskii, A. N. (see Basov, N. G.) - 305

Ovsyankin, V. V. and P. P. Feofilov. Mechanism of Summation of Electronic Excitations in Activated Crystals - 322
Pakhomov, P. L. (see Fugol', I. Ya.) - 254
Pantuev, V. S. (see Azimov, M. A.) - 216
Pantuev, V. S. (see Zolin, L. S.) - 8
Parfenova, V. P. (see Alekseevskii, N. E.) -206
Patashinskii, A. Z. Density Correlation Near the Critical Point - 132
Penin, A. N. (see Dneprovskii, V. S.) - 251
Perepelkin, N. F. Raman Scattering of Microwaves by Plasma Oscillations - 165
Petrash, G. G. (see Kaslin, V. M.) - 55
Petrosyan, Sh. V. (see Arutyunyan, F. R.) - 123
Petselt, Ya. (see Akanaev, B. A.) - 211
Piskarskas, A. S. (see Akhmanov, S. A.) - 241
Plakhov, A. G. (see Blinov, P. I.) - 163
Plotnikova, M. V., K. P. Mitrofanov, and V. S. Shpinel'. Barium Stannate - a Source for the Measurement of the Mossbauer Effect on Sn^{119} - 209
Politov, N. G. (see Andronikashvili, E. L.)- 110
Popkov, Yu. A. (see Eremenko, V. V.) - 149
Popov, B. M. (see Dmitriev, I. S.) - 20
Popov, G. V. (see Krizhanskii, L. M.) - 248
Popov, S. N. Two Operating Modes of a Plasma Source - 177
Popov, Yu. M. (see Basov, N. G.) - 289
Popova, M. N. (see Korobkin, V. V.) - 194
Potapenko, V. A. (see Burchenko, P. Ya.) - 156
Prokhorov, A. M. (see Konyukhov, V. K.) - 286
Rabinovich, M. S. (see Askar'yan, G. A.) - 264, 303
Rabinovich, M. S. (see Kulagin, S. G.) - 6
Raizer, Yu. P. (see Zel'dovich, Ya. B.) - 86
Rashba, E. I. (see Broude, V. L.) - 281
Ratner, B. S. (see Ivanchenko, V. G.) - 296
Rekalo, M. P. Check of C-invariance in Photoproduction of Strongly-interacting Particles - 101
Rob. L. (see Zolin, L. S.) - 8
Roganov, V. S. (see Babaev, A. I.) - 1
Rogozev, B. I. (see Krizhanskii, L. M.) - 248
Romanov, V. P. (see Sklyarevskii, V. V.) - 135
Rudavskii, E. Ya. (see Esel'son, B. N.) - 18
Rudenko, N. S. (see Vorob'ev, G. A.) - 37
Ryzhanov, S. G. Possible Experimental Observation of the Helicity of the Neutrino - 299
Sadykov, E. K. (see Bashkirov, Sh. Sh.) - 154
Saenko, L. F. (see Lobashov, V. M.) - 47, 173
Sakharov, A. D. Maximum Temperature of Thermal Radiation - 288
Samoilov, V. A. (see Lukashevich, I. I.) - 50
Sanina, V. A. (see Golovenchits, E. I.) - 266
Savchenko, M. M. (see Askar'yan, G. A.) - 303
Sayasov, Yu. S. (see Ivanov, G. K.) - 23
Semenenko, E. E. Minimum Electric Resistivity of an Antiferromagnetic Metal (Cr) - 291
Serbin, I. A. (see Esel'son, B. N.) - 18
Serebryakov, V. A. (see Vanyukov, M. P.) - 205
Sergeeva, V. M. (see Zhuze, V. P.) - 138
Shafranova, M. G. (see Zolin, L. S.) - 8
Shalyt, S. S. (see Zhuze, V. P.) - 138
Shapkin, V. V. (see Blinov, P. I.) - 163
Shchelev, M. Ya. (see Korobkin, V. V.) - 194
Sheka, E. F. (see Broude, V. L.) - 281
Shekhter, V. M. Broken Unitary Symmetry and Possible $\eta'(1875)$ Resonance - 12
Sheludyakov, E. P. (see Trelin, Yu. S.) - 63
Sherman, A. B. (see Smolenskii, G. A.) - 271
Sherstkov, Yu. A., V. I. Nepsha, A. E. Nikiforov, and V. I. Cherepanov. Influence of an External Electric Field on the EPR Signals of Pairs of Exchange-coupled Chromium Ions in Ruby - 262
Shmatko, E. S. (see Borzhkovskii, I. A.) - 118
Shmidt, V. V. Phase Transition in Superconductors of Small Size - 89
Shorokhov, O. A. (see Vanyukov, M. P.) - 205
Shpinel', V. S. (see Alekseevskii, N. E.) - 206
Shpinel', V. S. (see Plotnikova, M. V.) - 209
Shustin, O. A. Scattering of Light in the Phase Transition of the NH_4Cl Crystal - 320
Shvartsburg, A. B. (see Tsytovich, V. N.) - 65
Sidorenko, L. K. (see Livshitz, B. L.) - 179
Sil'vestrov, L. V. (see Azimov, M. A.) - 216
Sinitsyn, V. V. (see Gorelik, L. L.) - 91
Sisakyan, I. N. (see Maksimenko, V. M.) - 219
Sklyarevskii, V. V., I. I. Lukashevich, V. P. Romanov, N. I. Filippov, Yu. N. Venevtsev, a and A. S. Viskov. Mossbauer Effect in the Ferroelectric $Pb(Fe_{1/2}Nb_{1/2})O_3$ - 135
Sklyarevskii, V. V. (see Lukashevich, V. P.) - 50
Smirnov, V. A. (see Ivanov-Omskii, V. I.)- 185
Smirnov, Yu. F. and V. G. Neudachin. Investigation of the Electronic States of Atoms, Molecules, and Solids by Quasielastic Knockon of an Electron by a Fast electron (e, 2e) - 192
Smolenskii, G. A., V. M. Yudin, P. P. Syrnikov, and A. B. Sherman. The Transparent Hexagonal Ferrimagnet $RbNiF_3$ - 271
Smorodin, Yu. A. Possible Existence of a Passive Baryon State - 125
Smotritskii, L. M. (see Lobashov, V. M.) - 47, 173
Sokolov, A. P. (see Aleksandrov, E. B.) - 273
Sokolov, V. I. (see Belov, K. P.) - 212
Starunov, V. S. (see Krivokhizha, S. V.) - 245
Stepanov, E. P. (see Lukashevich, I. I.) - 50
Stepanov, V. I. (see Askar'yan, G. A.) - 303
Stishov, S. M. (see Tikhomirova, N. A.) - 60
Strakhovskii, G. M. (see Basov, N. G.) - 289, 305
Studenov, V. B. (see Askar'yan, G. A.) - 264
Strunov, L. N. (see Zolin, L. S.) - 8
Sukhanovskii, A. N. (see Kokurin, Yu. L.) 139
Surin, V. V. (see Monosov, Ya. A.) - 159
Sutovskii, V. M. (see Kulagin, S. G.) - 6
Sviridenkov, E. A. (see Belikova, T. P.) - 257

Sviridov, V. A. (see Zolin, L. S.) - 8
Syrnikov, P. P. (see Smolenskii, G. A.) - 271
Tager, A. S. Concerning One Possible Mechanism of Instability of an Electron Plasma in a Crystal - 239
Talanov, V. I. (see Bespalov, V. I.) - 307
Tal'roze, V. L. (see Barkalov, I. M.) - 200
Tatarenkov, V. M. (see Basov, N. G.) - 289
Tikhomirova, N. A., E. Yu. Tonkov, and S. M. Stishov. New Phase of Bismuth - 60
Tolok, V. T. (see Burchenko, P. Ya.) - 156
Tonkov, E. Yu. (see Tikhomirova, N. A.) - 60
Trelin, Yu. S. and E. P. Sheludyakov. Experimental Determination of the Speed of Sound in the Critical Region of Carbon Dioxide - 63
Tsakadze, D. S. (see Andronikashvili, E. L.) - 110
Tsikunov, V. N. (see Livshitz, B. L.) - 179
Tsolich, P. and I. Tsukerman. The Decays V $\rightarrow \gamma + l^+ + l^-$ and C-noninvariance of Electromagnetic Interaction - 1
Tsukerman, I. (see Tsolich, P.) - 1
Tsypin, V. S. (see Mikhailovskii, A. B.) - 158
Tsytovich, V. N. and A. B. Shvartsburg. Nonlinear Polarization of Radiation Passing through a Plasma - 65
Tulaikova, A. A. (see Monosov, Ya. A.) - 159
Tursunov, A. T. (see Livshitz, B. L.) - 179
Tuvdendorzh, D. (see Zolin, L. S.) - 8
Uspenskii, A. V. (see Basov, N. G.) - 305
Vainshtein, A. I. and B. L. Ioffe. Check on T-invariance in the $\pi^+ \rightarrow e^+ + \nu + \gamma$ Decay - 214
Vanyukov, M. P., V. I. Isaenko, V. V. Lyubimov, V. A. Serebryakov, and O. A. Shorokhov. Use of a Laser Operating in the Spike Mode to Obtain a High-temperature Plasma - 205
Vasilenko, B. T. (see Burchenko, P. Ya.) - 156
Vavilov, V. S. (see Blinov, L. M.) - 234
Venevtsev, Yu. N. (see Sklyarevskii, V. V.)- 135
Vinogradova, L. I. (see Dmitriev, I. S.) - 20
Viskov, A. S. (see Sklyarevskii, V. V.) - 135
Volkov, E. D. (see Burchenko, P. Ya.) - 156
Volovik, V. D. (see Borzhkovskii, I. A.) - 118
Vorob'ev, G. A. and N. S. Rudenko. Isotropic Spark Chamber - 37
Voronov, G. S., G. A. Delone, and N. B. Delone. Multiphoton Ionization of Krypton and Argon by Ruby Laser Radiation - 313
Yampol'skii, P. A. (see Barkalov, I. M.) - 200
Yudin, V. M. (see Smolenskii, G. A.) - 271
Yushko, K. B. (see Kormer, S. B.) - 39
Yushmanov, E. E. (see Baiborodov, Yu. T.) - 58
Zakatov, L. P. (see Blinov, P. I.) - 163
Zakharov, V. I. and A. B. Kaidalov. Possibility of Determining the Relative Signs of the Amplitudes of Hadron Decays of Hyperons - 300
Zakharov, Yu. P. (see Basov, N. G.) - 289
Zel'dovich Ya. B. and Yu. P. Raizer. Self-focusing of Light. Role of Kerr Effect and Striction - 86
Zhuze, V. P., S. S. Shalyt, V. A. Noskin, and V. M. Sergeeva. Superconductivity of La_3Te_4 - 138
Zlatanov, Z (see Zolin, L. S.) - 8
Zolin, L. S., L. F. Kirillova, Lu Ch'ing-ch'iang, V. A. Nikitin, V. S. Pantuev, V. A. Sviridov, L. N. Strunov, M. N. Khachaturyan, M. G. Shafranova, Z. Korbel, L. Rob, P. Devinski, Z. Zlatanov, P. Markov, L. Khristov, Kh. Chernev, N. Dalkhazhav, and D. Tuvdendorzh. Real Part of the pn Scattering Amplitude in the Energy Interval 2 - 10 GeV - 8